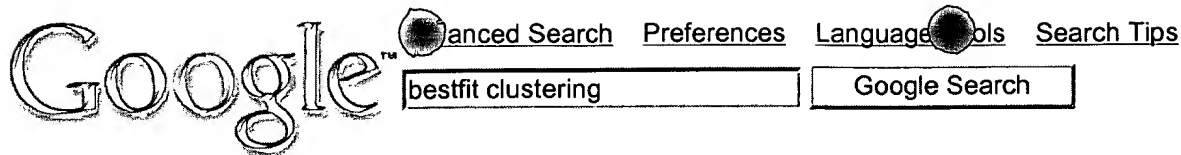


L Number	Hits	Search Text	DB	Time stamp
1	9	champion\$1challenger	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13:01
2	669	marketing adj strategy	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13:02
3	0	champion\$1challenger and (marketing adj strategy)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13:02
4	53	(marketing adj strategy) and cluster\$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13:02
5	0	((marketing adj strategy) and cluster\$3) and bestfit	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13:54
7	1	((marketing adj strategy) and cluster\$3) and best-fit	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13:02
6	3	((marketing adj strategy) and cluster\$3) and best adj fit	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13:48
8	0	6567786.URPN.	USPAT	2003/10/09 13:05
9	19	("4908761" "5227874" "5278751" "5717923" "5740549" "5758257" "5774868" "5819241" "5819285" "5832457" "5914670" "5930764" "5933811" "5937387" "5940809" "5946661" "5970464" "6267672" "6286005").PN.	USPAT	2003/10/09 13:06
10	42	5,659,626	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13:49
11	1	5,659,626.pn.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 13:49
14	16	(bestfit or( best adj fit) or best-fit) adj (cluster\$3 or segment\$6)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 14:35
15	0	6438579.URPN.	USPAT	2003/10/09 13:57
16	12	("5237157" "5678041" "5724567" "5918213" "5963916" "5991799" "6041311" "6049777" "6092049" "6112186" "6330592" "6334127").PN.	USPAT	2003/10/09 13:57

17	100	("5202955" "5216749" "6246880" "5761472" "5991340" "6159766" "5623425" "5835774" "6062190" "6351569" "5625374" "6018575" "6085173" "6189792" "4304204" "4967370" "6047287" "6068660" "6205009" "6262085" "6262086" "6263355" "6268385" "6312712" "6312723" "6316020" "6326372" "6326384" "6369087" "6444689" "5187773" "5522014" "5537644" "6373408" "5485531" "5494624" "5528524" "5606248" "5677844" "5809304" "5373220" "5625823" "6144984" "4774683" "4805230" "4862399" "4870594" "4951189" "4972310" "5235430").pn. ("5243514" "5297307" "5339128" "5345159" "5348705" "5362648" "5375061" "5394337" "5400415" "5418917" "5424248" "5442416" "5545963" "5588008" "5615822" "5623505" "5623651" "5629877" "5638291" "5684810" "5692153" "5702625" "5704033" "5708342" "5731869" "5737228" "5751365" "5774662" "5781798" "5850350" "5853703"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 14:46
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18	2715	bestfit	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 14:46
19	424	bestfit and clustering	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 14:47
20	2	(bestfit and clustering) and marketing	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 14:46
21	44	(bestfit and clustering) and survey	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 14:47
24	1025	707/6.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:20
25	3258	707/10.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:20
26	2605	707/104.1.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:20
27	1	(707/6.ccls. 707/10.ccls. 707/104.1.ccls. ) and bestfit	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:20
28	366	(707/6.ccls. 707/10.ccls. 707/104.1.ccls. ) and clustering	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:20
29	30	((707/6.ccls. 707/10.ccls. 707/104.1.ccls. ) and clustering) and survey	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:21
30	1918	705/14.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:21
31	1086	705/10.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:21
32	1	(705/14.ccls. 705/10.ccls.) and bestfit	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:21
33	79	(705/14.ccls. 705/10.ccls.) and clustering	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:21
34	0	706/45.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:21
35	598	706/45.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:21
36	109	706/48.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:21
37	387	706/52.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:22
38	1	(706/45.ccls. 706/48.ccls. 706/52.ccls.) and bestfit	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 16:22

-	6	best adj fit adj cluster\$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/08 15: 33
-	12027	champion adj challenge clustering	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/08 15: 34
-	0	champion adj challenge adj clustering	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/08 15: 34
-	0	champion adj challenge	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/08 15: 34
-	0	(champion with challenge)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/08 15: 34
-	0	champion adj challenger adj clustering	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/08 15: 35
-	11	champion adj challenger	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/10/09 12: 57



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Searched the web for **bestfit clustering**.

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### Multiple Sequence Alignment Practical

... **bestfit** -ran=100 10336.SEQ. ... It can also plot a tree showing the **clustering** relationships used to create the alignment You can choose to save this 'tree' in ...  
www.molbiol.ox.ac.uk/tutorials/MSF\_practical.htm - 38k - [Cached](#) - [Similar pages](#)

### UNC Bioinformatics

... Its purpose is to represent the **clustering** order used to create the final alignment. ... If you know the difference between Gap and **BestFit**, consider PileUp an. ...  
bioinformatics.unc.edu/bioinformatics/ courses/multiple/3.shtml - 43k - [Cached](#) - [Similar pages](#)

### PileUp

... Its purpose is to represent the **clustering** order used to create the final ... If you know the difference between Gap and **BestFit**, consider PileUp an extension of ...  
www.biozentrum.unibas.ch/manuals/seqweb/pileup.html - 27k - [Cached](#) - [Similar pages](#)

### Appendix 2: Bioinformatics and Functional Genomics

... In the above example of two syntaxins, **bestfit** showed a better percent amino acid ... It can also plot a tree showing the **clustering** relationships used to create ...  
www.bioinfbook.org/appendix2\_gcg.htm - 34k - [Cached](#) - [Similar pages](#)

### Exer 3 - Key - Spring, 2001

... [3 pts] "Randomized" sequences, as used by GAP and **BESTFIT**, take a given ... In proteins, features such as the **clustering** of hydrophobic and hydrophilic amino acid ...  
www.sdsc.edu/~gribskov/bimm140/ exercises/exer3\_key.html - 17k - [Cached](#) - [Similar pages](#)

### Identifying an Evolutionarily Distant Relationship Between P3 and ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)  
... structure analysis tools, and (3) a novel microenvironment **clustering** procedure to ... sequence analysis tools tested are PSI-BLAST, GAP, **BestFit**, ProfileScan, and ...  
cmgm.stanford.edu/biochem218/Projects%202000/Waugh.pdf - [Similar pages](#)

### GCG Introduction

... complete sequences are aligned in the Gap alignment, in contrast to **Bestfit**. ... making a multiple alignment that uses a progressive, **clustering** alignment method. ...  
www.embl-heidelberg.de/~seqanal/ courses/gcg\_course.html - 19k - [Cached](#) - [Similar pages](#)

#### GCG Introduction

... length sequences are aligned in the Gap alignment, in contrast to **Bestfit**. ... for making a multiple alignment that uses a progressive, **clustering** alignment method ...  
www.embl-heidelberg.de/~seqanal/courses/ Hamburg5.99/gcg\_course.html - 20k - [Cached](#) - [Similar pages](#)  
[ [More results from www.embl-heidelberg.de](#) ]

### Gapshow (GCG doc.)

... When run with the command line option -OUT, **BestFit** and Gap writes files with ... It can also plot a tree showing the **clustering** relationships used to create the ...  
www-igbmc.u-strasbg.fr/BioInfo/GCGdoc/Program\_Manual/ Comparison/gapshow.html - 27k - [Cached](#) - [Similar pages](#)

[PDF]Chapter 6 GCG

File Format: PDF/Adobe Acrobat

... Align the two input sequences with either Gap or **BestFit** before you display them ... It also can plot a tree showing the **clustering** relationships used to create ...

[www.bcbp.gu.se/~leckner/structure/BI\\_C6.pdf](http://www.bcbp.gu.se/~leckner/structure/BI_C6.pdf) - [Similar pages](#)

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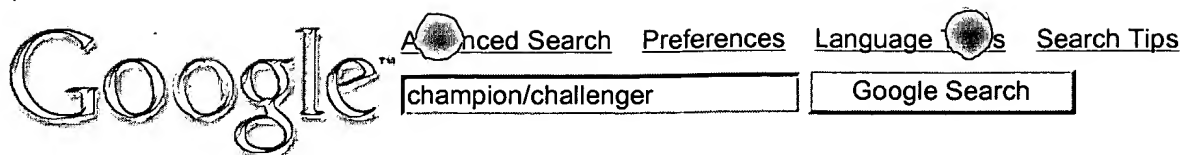
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Searched the web for **champion/challenger**.

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### [PDF] **Champion / Challenger Testing Champion Challenger Testing**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

**Champion / Challenger Testing** Enabling Continual Improvement in Risk Management Strategies

Prepared By: Rob Love Business Consultant Experian – South Africa ...

[www.experian.co.za/pdfs/ Champion%20Challenger%20-%20TheProcess%20of%20Continual%20Improvement.pdf](http://www.experian.co.za/pdfs/Champion%20Challenger%20-%20TheProcess%20of%20Continual%20Improvement.pdf) - [Similar pages](#)

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Challenger: Not even the city can rattle it. Meet Challenger, a street-wise people mover for shuttle, hospital or transit applications. ...

[www.sunsetbus.com/champion/challenger.htm](http://www.sunsetbus.com/champion/challenger.htm) - 19k - [Cached](#) - [Similar pages](#)

### **Sunset Bus - Used Buses For Sale - 1999 Champion Challenger**

1999 **Champion Challenger**. 99 **Champion Challenger**, 15 + rear luggage,

Gas, 130,000 miles, Return to Sunset Bus' Used Bus List.

[www.sunsetbus.com/usedbus/99\\_challenger.htm](http://www.sunsetbus.com/usedbus/99_challenger.htm) - 5k - Oct 7, 2003 - [Cached](#) - [Similar pages](#)

[ [More results from www.sunsetbus.com](#) ]

### **Champion 'Challenger' Size 3 Soccer Balls Quantity: 10 Online ...**

**Champion 'Challenger' Size 3 Soccer Balls Quantity: 10.** (CLICK below ... options).

**Champion 'Challenger' Size 3 Soccer Balls Quantity: 10.** Hand ...

[www.xkms.org/Online-Sports-132/ Champion-'Challenger'-Size-3-Soccer-Balls-Quantity-10.htm](http://www.xkms.org/Online-Sports-132/Champion-'Challenger'-Size-3-Soccer-Balls-Quantity-10.htm) - 3k - [Cached](#) -

[Similar pages](#)

### **Champion 'Challenger' Size 4 Soccer Balls Quantity: 10 Online ...**

**Champion 'Challenger' Size 4 Soccer Balls Quantity: 10.** (CLICK below ... options).

**Champion 'Challenger' Size 4 Soccer Balls Quantity: 10.** Hand ...

[www.xkms.org/Online-Sports-132/ Champion-'Challenger'-Size-4-Soccer-Balls-Quantity-10.htm](http://www.xkms.org/Online-Sports-132/Champion-'Challenger'-Size-4-Soccer-Balls-Quantity-10.htm) - 3k

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### **Champion "Challenger" Size 3 Soccer Balls - Quantity: 10**

**Champion "Challenger" Size 3 Soccer Balls - Quantity: 10.** ... Click on the image to see more detail, **Champion "Challenger" Size 3 Soccer Balls - Quantity: 10.** ...

[www.onlinesports.com/pages/l,CP-SBCH3.html](http://www.onlinesports.com/pages/l,CP-SBCH3.html) - 11k - [Cached](#) - [Similar pages](#)

### **Strategy Science**

... Using Strategy Science to improve **champion/challenger** outcomes **Champion/challenger** testing is a systematic, empirical method of comparing the performance of an ...

[www.fairisaac.com/Fairisaac/Solutions/Strategy+Science/ strategy\\_science\\_sub6.htm](http://www.fairisaac.com/Fairisaac/Solutions/Strategy+Science/strategy_science_sub6.htm) - 62k - [Cached](#) - [Similar pages](#)

### **'89 Champion Challenger**

25 Pass 1989 **Champion Challenger** Ford; 189,632 miles Stk# KHC22997

\$12,900. Body Description: - NJ DOT ready Seats: - Coach seats ...

[www.arcolasales.com/'89\\_champion\\_challenger1.htm](http://www.arcolasales.com/'89_champion_challenger1.htm) - 5k - [Cached](#) - [Similar pages](#)

## **Champion Challenger**

... **Champion Challenger**. ... A friend of mine keeps reminding me about the performance of the **Champion Challenger** 150 hp but he can't give me any numbers... ...

[www.aeroncapiots.com/disc/\\_disc/0000115d.htm](http://www.aeroncapiots.com/disc/_disc/0000115d.htm) - 3k - [Cached](#) - [Similar pages](#)

## **Re: Champion Challenger**

... Re: **Champion Challenger**. From: Bill Wideman email: [wbwideman@msn.com](mailto:wbwideman@msn.com)

Date: 12 Sep 2003 Time: 09:10:23. Comments. Bruno, I have a friend ...

[www.aeroncapiots.com/disc/\\_disc/0000116f.htm](http://www.aeroncapiots.com/disc/_disc/0000116f.htm) - 3k - [Cached](#) - [Similar pages](#)

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Best 200 shown

Relevance scale ☐ ☐ ☐ ☐ ☐**1** [The metaDESK: models and prototypes for tangible user interfaces](#)

Brygg Ullmer, Hiroshi Ishii

October 1997 **Proceedings of the 10th annual ACM symposium on User interface software and technology**Full text available: [pdf\(1.51 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** augmented reality, haptic input, input devices, tangible user interfaces, ubiquitous computing**2** [WaveCluster: a wavelet-based clustering approach for spatial data in very large databases](#)

Gholamhosein Sheikholeslami, Surojit Chatterjee, Aidong Zhang

February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 3-4Full text available: [pdf\(594.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Many applications require the management of spatial data in a multidimensional feature space. Clustering large spatial databases is an important problem, which tries to find the densely populated regions in the feature space to be used in data mining, knowledge discovery, or efficient information retrieval. A good clustering approach should be efficient and detect clusters of arbitrary shape. It must be insensitive to the noise (outliers) and the order of input data. We propose *WaveCluster*

**3** [Session 1: Cluster based routing using a k-tree core backbone for mobile ad hoc networks](#)

Saurabh Srivastava, R. K. Ghosh

September 2002 **Proceedings of the 6th international workshop on Discrete algorithms and methods for mobile computing and communications**Full text available: [pdf\(298.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The problem of routing in Mobile Ad hoc Networks is non-trivial because of the dynamic nature of the network topology. In addition to computing shortest paths, as in wire-line networks, any routing scheme must consider that the topology of the network can vary while the packet is being routed. Cluster based schemes have been proposed which segregate the network into manageable sets for maintaining routing information. In this paper we propose a novel method of constructing the clusters and a back ...

**Keywords:** cluster based routing, distributed algorithms, multihop packet, radio networks, wireless ad hoc networks

#### 4 A High Availability Clustering Solution

Phil Lewis

August 1999 **Linux Journal**

Full text available:  [html\(34.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Mr. Lewis tells us how he designed and implemented a simple high-availability solution for his company



#### 5 Efficient flooding with Passive Clustering (PC) in ad hoc networks

Taek Jin Kwon, Mario Gerla

January 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 1

Full text available:  [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An ad hoc network is a fast deployable self-configuring wireless network characterized by node mobility, dynamic topology structure, unreliable media and limited power supply. Nodes in an ad hoc network must cooperate and carry out a distributed routing protocol in order to make multi-hop communications possible. On Demand Routing is one of the most popular routing styles in ad hoc networks. In On Demand Routing, "flooding" is used to find a feasible route from source to destination. The functio ...



#### 6 Clustering based fast clock scheduling for light clock-tree

M. Saitoh, M. Azuma, A. Takahashi

March 2001 **Proceedings of the conference on Design, automation and test in Europe**

Full text available:  [pdf\(156.86 KB\)](#) Additional Information: [full citation](#), [references](#)



#### 7 Clustered principal components for precomputed radiance transfer

Peter-Pike Sloan, Jesse Hall, John Hart, John Snyder

July 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 3

Full text available:  [pdf\(9.29 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We compress storage and accelerate performance of precomputed radiance transfer (PRT), which captures the way an object shadows, scatters, and reflects light. PRT records over many surface points a transfer matrix. At run-time, this matrix transforms a vector of spherical harmonic coefficients representing distant, low-frequency source lighting into exiting radiance. Per-point transfer matrices form a high-dimensional surface signal that we compress using *clustered principal component analysis* ...

**Keywords:** *graphics hardware, illumination, monte carlo techniques, rendering, shadow algorithms*



#### 8 Data streams II: Clustering of streaming time series is meaningless

Jessica Lin, Eamonn Keogh, Wagner Truppel

June 2003 **Proceedings of the 8th ACM SIGMOD workshop on Research issues in data mining and knowledge discovery**

Full text available:  [pdf\(648.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Time series data is perhaps the most frequently encountered type of data examined by the data mining community. Clustering is perhaps the most frequently used data mining



algorithm, being useful in its own right as an exploratory technique, and also as a subroutine in more complex data mining algorithms such as rule discovery, indexing, summarization, anomaly detection, and classification. Given these two facts, it is hardly surprising that time series clustering has attracted much attention. T ...

**Keywords:** clustering, data mining, data streams, rule discovery, time series

## 9 Data streams I: Clustering binary data streams with K-means

Carlos Ordonez

June 2003 **Proceedings of the 8th ACM SIGMOD workshop on Research issues in data mining and knowledge discovery**

Full text available:  [pdf\(149.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Clustering data streams is an interesting Data Mining problem. This article presents three variants of the K-means algorithm to cluster binary data streams. The variants include On-line K-means, Scalable K-means, and Incremental K-means, a proposed variant introduced that finds higher quality solutions in less time. Higher quality of solutions are obtained with a mean-based initialization and incremental learning. The speedup is achieved through a simplified set of sufficient statistics and oper ...

## 10 Similarity querying II: QCluster: relevance feedback using adaptive clustering for content-based image retrieval

Deok-Hwan Kim, Chin-Wan Chung

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**

Full text available:  [pdf\(2.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The learning-enhanced relevance feedback has been one of the most active research areas in content-based image retrieval in recent years. However, few methods using the relevance feedback are currently available to process relatively complex queries on large image databases. In the case of complex image queries, the feature space and the distance function of the user's perception are usually different from those of the system. This difference leads to the representation of a query with multiple ...

**Keywords:** classification, cluster-merging, content-based image retrieval, image database, relevance feedback

## 11 Adaptation/load balancing: A method for decentralized clustering in large multi-agent systems

Elth Ogston, Benno Overeinder, Maarten van Steen, Frances Brazier

July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Full text available:  [pdf\(326.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper examines a method of clustering within a fully decentralized multi-agent system. Our goal is to group agents with similar objectives or data, as is done in traditional clustering. However, we add the additional constraint that agents must remain in place on a network, instead of first being collected into a centralized database. To do this we connect agents in a random network and have them search in a peer-to-peer fashion for other similar agents. We thus aim to tackle the basic clus ...

**Keywords:** decentralized systems

## 12 Clustering: ReCoM: reinforcement clustering of multi-type interrelated data objects

Jidong Wang, Huajun Zeng, Cheng Chen, Hongjun Lu, Li Tao, Wei-Yang Ma  
 July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on  
 Research and development in informaion retrieval**

Full text available:  pdf(204.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Most existing clustering algorithms cluster highly related data objects such as Web pages and Web users separately. The interrelation among different types of data objects is either not considered, or represented by a static feature space and treated in the same ways as other attributes of the objects. In this paper, we propose a novel clustering approach for clustering multi-type interrelated data objects, ReCoM (Reinforcement Clustering of Multi-type Interrelated data objects). Under this appr ...

**Keywords:** clustering, interrelated, multi-type, reinforcement

### 13 Clustering: Document clustering based on non-negative matrix factorization

Wei Xu, Xin Liu, Yihong Gong

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on  
 Research and development in informaion retrieval**

Full text available:  pdf(216.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


In this paper, we propose a novel document clustering method based on the non-negative factorization of the term-document matrix of the given document corpus. In the latent semantic space derived by the non-negative matrix factorization (NMF), each axis captures the base topic of a particular document cluster, and each document is represented as an additive combination of the base topics. The cluster membership of each document can be easily determined by finding the base topic (the axis) with w ...

**Keywords:** document clustering, non-negative matrix factorization

### 14 Clustering task graphs for message passing architectures

Apostolos Gerasoulis, Sesh Venugopal, Tao Yang

June 1990 **ACM SIGARCH Computer Architecture News , Proceedings of the 4th  
 international conference on Supercomputing**, Volume 18 Issue 3

Full text available:  pdf(994.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Clustering is a mapping of the nodes of a task graph onto labeled clusters. We present a unified framework for clustering of directed acyclic graphs (DAGs). Several clustering algorithms from the literature are compared using this framework. For coarse grain DAGs two interesting properties are presented. For every nonlinear clustering there exists a linear clustering whose parallel time is less than the nonlinear one. Furthermore, the parallel time of any linear clustering is within a facto ...

### 15 A general framework for vertex orderings, with applications to netlist clustering

C. J. Alpert, A. B. Kahng


November 1994 **Proceedings of the 1994 IEEE/ACM international conference on  
 Computer-aided design**

Full text available:  pdf(554.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a general framework for the construction of vertex orderings for netlist clustering. Our WINDOW algorithm constructs an ordering by iteratively adding the vertex with highest attraction to the existing ordering. Variant choices for the attraction function allow our framework to subsume many graph traversals and clustering objectives from the literature. The DP-RP method of [3] is then applied to optimally split the ordering into a k

### 16 A parallel algorithm for record clustering


Edward Omiecinski, Peter Heuermann

December 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 4Full text available:  pdf(1.82 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present an efficient heuristic algorithm for record clustering that can run on a SIMD machine. We introduce the P-tree, and its associated numbering scheme, which in the split phase allows each processor independently to compute the unique cluster number of a record satisfying an arbitrary query. We show that by restricting ourselves in the merge phase to combining only sibling clusters, we obtain a parallel algorithm whose speedup ratio is optimal in the number of processors used. Final ...

## 17 Concepts and effectiveness of the cover-coefficient-based clustering methodology for text databases

Fazli Can, Esen A. Ozkarahan


December 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 4Full text available:  pdf(2.74 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A new algorithm for document clustering is introduced. The base concept of the algorithm, the cover coefficient (CC) concept, provides a means of estimating the number of clusters within a document database and related indexing and clustering analytically. The CC concept is used also to identify the cluster seeds and to form clusters with these seeds. It is shown that the complexity of the clustering process is very low. The retrieval experiments show that the information-retrieval effectiveness ...

**Keywords:** cluster validity, clustering-indexing relationships, cover coefficient, decoupling coefficient, document retrieval, retrieval effectiveness

## 18 Term clustering of syntactic phrases

D. D. Lewis, W. B. Croft

December 1989 **Proceedings of the 13th annual international ACM SIGIR conference on Research and development in information retrieval**Full text available:  pdf(1.62 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Term clustering and syntactic phrase formation are methods for transforming natural language text. Both have had only mixed success as strategies for improving the quality of text representations for document retrieval. Since the strengths of these methods are complementary, we have explored combining them to produce superior representations. In this paper we discuss our implementation of a syntactic phrase generator, as well as our preliminary experiments with producing phrase clusters. Th ...

## 19 Clustered processors: Dynamically managing the communication-parallelism trade-off in future clustered processors

Rajeev Balasubramanian, Sandhya Dwarkadas, David H. Albonesi

June 2003 **Proceedings of the 30th annual international symposium on Computer architecture**Full text available:  pdf(206.34 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

Clustered microarchitectures are an attractive alternative to large monolithic superscalar designs due to their potential for higher clock rates in the face of increasingly wire-delay-constrained process technologies. As increasing transistor counts allow an increase in the number of clusters, thereby allowing more aggressive use of instruction-level parallelism (ILP), the inter-cluster communication increases as data values get spread across a wider area. As a result of the emergence of this tr ...

## 20 Clustered processors: Improving dynamic cluster assignment for clustered trace cache processors

Ravi Bhargava, Lizy K. John

June 2003 **Proceedings of the 30th annual international symposium on Computer architecture**

Full text available:  pdf (139.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This work examines dynamic cluster assignment for a clustered trace cache processor (CTCP). Previously proposed cluster assignment techniques run into unique problems as issue width and cluster count increase. Realistic design conditions, such as variable data forwarding latencies between clusters and a heavily partitioned instruction window, increase the degree of difficulty for effective cluster assignment. In this work, the trace cache and fill unit are used to perform dynamic cluster assignme ...

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# 1 [Optimization of collection efforts in automobile financing—a KDD supported environment](#)

H. Kauderer, G. Nakhaeizadeh, F. Artiles, H. Jeromin

 August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**

 Full text available: [pdf\(281.46 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)
**Keywords:** automobile lending, collections, credit risk, scoring, vehicle financing

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